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CLAIMS

What is claimed is:

- 1. A micromachined structure comprising:
 - a) a first wet etched pit having a first flat surface;
 - b) a second wet etched pit having a second flat surface;
 - c) a dry pit disposed between the first flat surface and second flat surface.
- 2. The micromachined structure of claim 1 wherein the structure is made of <100> silicon.
- 3. The micromachined structure of claim 1 wherein the wet etched pits are anisotropically wet etched pits.
- 4. A micromachined structure comprising:
 - a) a wet etched pit having a flat surface;
 - b) a ring-shaped dry pit disposed in the wet etched pit;
 - c) a second wet etched pit disposed in the ring-shaped dry pit, wherein the second wet etched pit extends above the flat surface
- 5. The micromachined structure of claim 4 wherein the structure is made of <100> silicon.
- 6. The micromachined structure of claim 4 wherein the wet etched pits are anisotropically wet etched pits.

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- 7. A micromachined structure comprising:
 - a) a wet etched pit having a flat surface;
 - b) a U-shaped dry pit disposed in the wet etched pit;
 - c) a wedge disposed in the U-shaped dry pit, wherein the wedge extends above the flat surface.
- 8. The micromachined structure of claim/7 wherein the structure is made of <100> silicon.
- 9. The micromachined structure of claim 7 wherein the wet etched pits are anisotropically wet etched pits.
- 10. A micromachined substrate comprising:
 - a) a wet etched pit;
 - b) a dry-etched hole disposed in the wet etched pit, wherein the dry hole extends through the substrate.
- 11. The micromachined substrate of claim 10/wherein the structure is made of <100> silicon.
- 12. The micromachined substrate of claim 10 wherein the wet etched pits are anisotropically wet etched pits.
- 13. The micromachined substrate of claim 10/wherein the dry hole is centered in the wet pit.
- 14. The micromachined substrate of claim 10 further comprising an optical fiber disposed in the dry hole.